

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Date Submitted: July 24, 2006

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Complete if Known

Application Number	10/534,578
Filing Date	05/11/2005
First Named Inventor	Narinder K. Chawla
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	059314-0301

Sheet	1	of	18
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document	Pages, Columns, Lines, Where	T ⁶
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	Office ³	Number ⁴	Kind Code ⁵ (if known)			
B1		WO95/25116		CALIFORNIA INST OF TECHN (US)	1995-09-21	
B2		WO95/35505		UNIV LELAND STANFORD JUNIOR (US)	1995-12-28	

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	C1	Adam, M.A., "Identification of a signal in a murine retrovirus that is sufficient for packaging of nonretroviral RNA into virions," (1988) <i>J. Virol.</i> 62:3802-3806	
	C2	Altschul, S.F. et al., "Basic local alignment search tool," (1990) <i>J. Mol. Biol.</i> 215:403-410	
	C3	Amado, M. et al., "Identification and characterization of large galactosyltransferase gene families: galactosyltransferases for all functions," (1999) <i>Biochim. Biophys. Acta</i> 1473:35-53	
	C4	Anderson, N.L., "A comparison of selected mRNA and protein abundances in human liver," (1997) <i>Electrophoresis</i> 18:533-537	
	C5	Antinozzi, P.A. et al., "Metabolic engineering with recombinant adenoviruses," (1999) <i>Annu. Rev. Nutr.</i> 19:511-544	
	C6	Apweiler, R. et al., "On the frequency of protein glycosylation, as deduced from analysis of the SWISS-PROT database," (1999) <i>Biochim. Biophys. Acta</i> 1473:4-8	
	C7	Armentano, D. et al., "Effect of internal viral sequences on the utility of retroviral vectors," (1987) <i>J. Virol.</i> 61:1647-1650	
	C8	Arndt, G.M. et al., "A rapid genetic screening system for identifying gene-specific suppression constructs for use in human cells," (2000) <i>Nucleic Acids Res.</i> 28:E15	
	C9	Asano, M. et al., "Growth retardation and early death of β -1, 4-galactosyltransferase knockout mice with augmented proliferation and abnormal differentiation of epithelial cells," (1997) <i>EMBO J.</i> 16:1850-1857	
	C10	Ashkenazi, A. et al., "Apoptosis control by death and decoy receptors," (1999) <i>Curr. Opin. Cell Biol.</i> 11:255-260	

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 First Named Inventor Narinder K. Chawla
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	C11	Baltimore, D., "Intracellular immunization," (1988) <i>Nature</i> 335:395-396	
	C12	Bauer, G. et al., "Inhibition of human immunodeficiency virus-1 (HIV-1) replication after transduction of granulocyte colony-stimulating factor-mobilized D34+ cells from HIV-1-infected donors using retroviral vectors containing anti-HIV-1 genes," (1997) <i>Blood</i> 89:2259-2267	
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	C14	Bender, M.A. et al., "Evidence that the packaging signal of Moloney murine leukemia virus extends into the gag region," (1987) <i>J. Virol.</i> 61:1639-1646	
	C15	Biederbick, A. et al., "A human intracellular apyrase-like protein, LALP70, localizes to lysosomal/autophagic vacuoles," (1999) <i>J. Cell Sci.</i> 112:2473-2484	
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	C18	Binari, R.C. et al., "Genetic evidence that heparin-like glycosaminoglycans are involved in wingless signaling," (1997) <i>Development</i> 124:2623-2632	
	C19	Blitter, G.A. et al., "Expression and secretion vectors for yeast," (1987) <i>Methods Enzymol.</i> 153:516-544	
	C20	Blaese, R.M. et al., "T lymphocyte-directed gene therapy for ADA- SCID: initial trial results after 4 years," (1995) <i>Science</i> 270:475-480	
	C21	Blind, M. et al., "Cytoplasmic RNA modulators of an inside-out signal-transduction cascade," (1999) <i>Proc. Natl. Acad. Sci. USA</i> 96:3606-3610	
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	C23	Bolton, A.E. et al., " (1973) <i>Biochem. J.</i> 133:529-539	
	C24	Bonay, P. et al., "Intra-Golgi Transport Inhibition by Megalomicin," (1996) <i>J. Biol. Chem.</i> 271:3719-3726	

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Examiner Name	Unknown
Attorney Docket Number	059314-0301

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	C25	Bonyhadi, M.L., "RevM10-expressing T cells derived in vivo from transduced human hematopoietic stem-progenitor cells inhibit human immunodeficiency virus replication," (1997) <i>J. Virol.</i> 71:4707-4716	
	C26	Bordignon, C. et al., "Gene therapy in peripheral blood lymphocytes and bone marrow for ADA-immunodeficient patients," (1995) <i>Science</i> 270:470-475	
	C27	Boulay, J.-L. et al., "Expression vectors and delivery systems," (1998) <i>Curr. Opin. Biotechnol.</i> 9:445-450	
	C28	Brody, E.N., "Aptamers as therapeutic and diagnosis agents," (2000) <i>J. Biotechnol.</i> 74:5-13	
	C29	Broglie, R. et al., "Light-regulated expression of a pea Ribulose-1,5-Bisphosphate Carboxylase small subunit gene in transformed plant cells," (1984) <i>Science</i> 224:838-843	
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	C32	Burge, C. et al., "Finding the genes in genomic DNA," (1997) <i>J. Mol. Biol.</i> 268:78-94	
	C33	Burge, C. et al., "Prediction of complete gene structures in human genomic DNA," (1998) <i>Curr. Opin. Struct. Biol.</i> 8:346-354	
	C34	Burton, D.R., "A large array of human monoclonal antibodies to type 1 human immunodeficiency virus from combinatorial libraries of asymptomatic seropositive individuals," (1991) <i>Proc. Natl. Acad. Sci. USA</i> 88:10134-10137	
	C35	Capecci, M.R., "Altering the genome by homologous recombination," (1989) <i>Science</i> 244:1288-1292	
	C36	Caruthers, M.H. et al., "New chemical methods for synthesis in polynucleotides," (1980) <i>Nucleic Acids Symp. Ser.</i> 7:215-223	
	C37	Cavazzana-Calvo, M. et al., "Gene therapy of human severe combined immunodeficiency (SCID)-X1 disease," (2000) <i>Science</i> 288:669-672	
	C38	Chang, C.-C. et al., "Evolution of a cytokine using DNA family shuffling," (1999) <i>Nat. Biotechnol.</i> 17:793-797	

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	C39	Chen, L. et al., "Overexpression of matrix Gla protein mRNA in malignant human breast cells: isolation by differential cDNA hybridization," (1990) <i>Oncogene</i> 5:1391-1395	
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	C41	Christians, F.C. et al., "Directed evolution of thymidine kinase for AZT phosphorylation using DNA family shuffling," (1999) <i>Nat. Biotechnol.</i> 17:259-264	
	C42	Clarke, M.L. et al., "Comparative analysis of artificial antisense RNA regulation in fission yeast and human cells," (2000) <i>Biochem. Biophys. Res. Commun.</i> 268:8-13	
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	C46	Cote, R.J. et al., "Generation of human monoclonal antibodies reactive with cellular antigens," (1983) <i>Proc. Natl. Acad. Sci. USA</i> 80:2026-2030	
	C47	Cramer, A. et al., "Improved green fluorescent protein by molecular evolution using DNA shuffling," (1996) <i>Nat. Biotechnol.</i> 14:315-319	
	C48	Crystal, R.G. et al., "A Phase 1 study, in cystic fibrosis patients, of the safety, toxicity, and biological efficacy of a single administration of a replication deficient, recombinant adenovirus carrying the cDNA of the normal cystic fibrosis transmembrane conductance regulator gene in the lung," (1995) <i>Hum. Gene Therapy</i> 6:643-666	
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	C50	Crystal, R.G., "Transfer of genes to humans: Early lessons and obstacles to success," (1995). <i>Science</i> 270:404-410	
	C51	Csete, M.E. et al., "Efficient gene transfer to pancreatic islets mediated by adenoviral vectors," (1995) <i>Transplantation</i> 27:263-268	
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	C53	Datta, A. et al., "Mutation of the sialyltransferase S-sialylmotif alters the kinetics of the donor and acceptor substrates," (1998) <i>J. Biol. Chem.</i> 273:9608-9618	
	C54	Datta, A. et al., "Sialylmotifs of sialyltransferases," (1997) <i>Indian J. Biochem. Biophys.</i> 34:157-165	
	C55	Datta, A. et al., "The sialyltransferase "sialylmotif" participates in binding the donor substrate CMP-NeuAc," (1995) <i>J. Biol. Chem.</i> 270:1497-1500	
	C56	Dohi, T. et al., "Detection of N-acetylgalactosaminyltransferase mRNA which determines expression of Sda blood group carbohydrate structure in human gastrointestinal mucosa and cancer," (1996) <i>Int. J. Cancer</i> 67:626-631	
	C57	Drickamer, K. et al., "Biology of animal lectins," (1993) <i>Annu. Rev. Cell Biol.</i> 9:237-264	
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	C59	Dryga, S.A. et al., "Identification of mutations in a sindbis virus variant able to establish persistent infection in BHK cells: The importance of a mutation in the nsP2 gene," (1997) <i>Virology</i> 228:74-83	
	C60	Dull, T. et al., "A third-generation lentivirus vector with a conditional packaging system," (1998) <i>J. Virol.</i> 72:8463-8471	
	C61	Duplax, C. et al., "Quantitative analysis of polymerase chain reaction products using biotinylated dUTP incorporation," (1993) <i>Anal. Biochem.</i> 212:229-236	
	C62	Eddy, S.R., "Hidden markov models," (1996) <i>Curr. Opin. Struct. Biol.</i> 6:361-365	
	C63	Elbashir, S.M. et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells," (2001) <i>Nature</i> 411:494-498	
	C64	Engelhard, E.K. et al., "The insect tracheal system: a conduit for the systemic spread of Autographa californica M nuclear polyhedrosis virus," (1994) <i>Proc. Natl. Acad. Sci. USA</i> 91:3224-3227	
	C65	Etienne-Decerf, J. et al., "Elevated anti- α -galactosyl antibody titres," (1987) <i>Acta Endocrinol.</i> 115:67-74	
	C66	Fields, S. et al., "A novel genetic system to detect protein-protein interactions," (1989) <i>Nature</i> 340:245-246	

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	C67	Fire, A. et al., "Potent and specific genetic interference by double-stranded RNA in <i>Caenorhabditis elegans</i> ," (1998) <i>Nature</i> 391:806-811	
	C68	Freeze, H. et al., "Molecular basis of carbohydrate-deficient glycoprotein syndromes type I with normal phosphomannomutase activity," (1999) <i>Biochim. Biophys. Acta</i> 1455:167-78	
	C69	Fukushima, K., "Elevation of alpha2-->6 sialyltransferase and alpha1-->2 fucosyltransferase activities in human choriocarcinoma," (1998) <i>Cancer Res.</i> 58:4301-4306	
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	C71	Garoff, H. et al., "Recent advances in gene expression using alphavirus vectors," (1998) <i>Curr. Opin. Biotechnol.</i> 9:464-469	
	C72	Gatti, R.A. et al., "Localization of an ataxia-telangiectasia gene to chromosome," (1988) <i>Nature</i> 336:577-580	
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	C75	Gish, K., "Breast Cancer: surveying half the human genome with transcription profiling for better diagnosis, prognosis, and therapy," (1999) <i>AWIS Magazine</i> 28:7-10	
	C76	Goins, W.F. et al., "Herpes simplex virus type 1 vector-mediated expression of nerve growth factor protects dorsal root ganglion neurons from peroxide toxicity," (1999) <i>J. Virol.</i> 73:519-532	
	C77	Goldman, C.K. et al., "In vitro and in vivo gene delivery mediated by a synthetic polycationic amino polymer," (1997) <i>Nat. Biotechnol.</i> 15:462-466	
	C78	Gossen, M. et al., "Tight control of gene expression in mammalian cells by tetracycline-responsive promoters," (1992) <i>Proc. Natl. Acad. Sci. USA</i> 89:5547-5551	
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	C80	Graham, F.L. et al., "A new technique for the assay of infectivity of human adenovirus 5 DNA," (1973) <i>Virology</i> 52:456-467	
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Date Submitted: July 24, 2006

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Sheet 8 of 18

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Application Number 10/534,578
 Filing Date 05/11/2005
 First Named Inventor Narinder K. Chawla
 Group Art Unit Unknown
 Examiner Name Unknown
 Attorney Docket Number 059314-0301

NON PATENT LITERATURE DOCUMENTS

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	C82	Hadari, Y.R. et al., "Galectin-8; A new rat lectin, related to galectin-4," (1995) <i>J. Biol. Chem.</i> 270:3447-3453	
	C83	Haft, D.H. et al., "TIGRFAMs: a protein family resource for the functional identification of proteins," (2001) <i>Nucleic Acids Res.</i> 29:41-43	
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	C86	Harrington, J.J. et al., "Formation of de novo centromere and construction of first-generation human artificial microchromosomes," (1997) <i>Nat. Genet.</i> 15:345-355	
	C87	Hartman, S.C. et al., "Two dominant-acting selectable markers for gene transfer studies in mammalian cells," (1988) <i>Proc. Natl. Acad. Sci. USA</i> 85:8047-8051	
	C88	Hennet, T. et al., "Genomic cloning and expression of three murine UDP-galactose-4-epimerase genes," (1998) <i>J. Biol. Chem.</i> 273:58-65	
	C89	Higgins, D.G. et al., "CLUSTAL V: Improved software for multiple sequence alignment," (1992) <i>CABIOS</i> 8:189-191	
	C90	Higgins, D.G. et al., "Fast and sensitive multiple sequence alignments on a microcomputer," (1989) <i>CABIOS</i> 5:151-153	
	C91	Horenstein, B. et al., "Acid-catalyzed solvolysis of CMP-N-acetyl neuraminate: evidence for a sialylation with a finite lifetime," (1996) <i>J. Am. Chem. Soc.</i> 118:10371-10379	
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	C93	Howard, A.D. et al., "Orphan G-protein-coupled receptors and natural ligand discovery," (2001) <i>Trends Pharmacol. Sci.</i> 22:132-140	
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	C96	Janne, J. et al., "Transgenic bioreactor," (1998) <i>Biotechnol. Annu. Rev.</i> 4:55-74	

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		Filing Date	05/11/2005
		First Named Inventor	Narinder K. Chawla
		Group Art Unit	Unknown
		Examiner Name	Unknown
Date Submitted:	July 24, 2006	Attorney Docket Number	059314-0301
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Sheet	9	of	18

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	C97	Kannagi, R., "Carbohydrate-mediated cell adhesion involved in hematogenous metastasis of cancer," (1997) <i>Glycoconj. J.</i> 14:577-584	
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	C99	Kimmel, A.R., "Identification and characterization of specific clones: Strategy for confirming the validity of presumptive clones," (1987) <i>Methods Enzymol.</i> 152:507-511	
	C100	Kohler, G. et al., "Continuous cultures of fused cells secreting antibody of predefined specificity," (1975) <i>Nature</i> 256:495-497	
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	C107	Lagerstrom, M. et al. (1991) <i>PCR Methods Applic.</i> 1:111-119	
	C108	Lander, E.S. et al., "Strategies for studying heterogeneous genetic traits in humans by using a linkage map of restriction fragment length polymorphisms," (1986) <i>Proc. Natl. Acad. Sci. USA</i> 83:7353-7357	
	C109	Lasky, L.A., "Lectin cell adhesion molecules (LEC-CAMs): a new family of cell adhesion proteins involved with inflammation," (1991) <i>J. Cell. Biochem.</i> 45:139-146	

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	C111	Laurent, T.C. et al., "Hyaluronan," (1992) <i>FASEB J.</i> 6:2397-2404	
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	C114	Letunic, I. et al., "Recent improvements to the SMART domain-based sequence annotation resource," (2002) <i>Nucleic Acids Res.</i> 30:242-244	
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	C118	Lois, C. et al., "Germline transmission and tissue-specific expression of transgenes delivered by lentiviral vectors," (2002) <i>Science</i> 295:868-872	
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	C124	Manda et al., "Identification of genes (SPON2 and C20orf2) differentially expressed between cancerous and noncancerous lung cells by mRNA differential display," (1999) <i>Genomics</i> 51:5-14	
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First Named Inventor	Narinder K. Chawla
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	059314-0301

Sheet 12 of 18

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	C147	Niehues, R. et al., "Carbohydrate-deficient glycoprotein syndrome type Ib. Phosphomannose isomerase deficiency and mannose therapy," (1998) <i>J. Clin. Invest.</i> 101:1414-1420	
	C148	Nowotny, P. et al., "SNP analysis to dissect human traits," (2001) <i>Curr. Opin. Neurobiol.</i> 11:637-641	
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	C153	Paddison, P.J. et al., "Short hairpin RNAs (shRNAs) induce sequence-specific silencing in mammalian cells," (2002) <i>Genes Dev.</i> 16:948-958	
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	C162	Raghavan, S.S. et al., "Leukocyte β -glucosidase in homozygotes and heterozygotes for Gaucher disease," (1980) <i>Am. J. Hum. Genet.</i> 32:158-173	
	C163	Ranga, U. et al., "Cell and viral regulatory elements enhance the expression and function of a human immunodeficiency virus inhibitory gene," (1997) <i>J. Virol.</i> 71:7020-7029	
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: July 24, 2006 (use as many sheets as necessary)		Application Number	10/534,578
		Filing Date	05/11/2005
		First Named Inventor	Narinder K. Chawla
		Group Art Unit	Unknown
		Examiner Name	Unknown
		Attorney Docket Number	059314-0301
Sheet	14	of	18

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	C168	Roberge, J.Y. et al., "A strategy for a convergent synthesis of N-linked glycopeptides on a solid support," (1995) <i>Science</i> 269:202-204	
	C169	Rossi, F.M.V. et al., "Recent advances in inducible gene expression systems," (1998) <i>Curr. Opin. Biotechnol.</i> 9:451-456	
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Sheet	15	of	18		

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	C187	Shaper, N.L. et al., "The chicken genome contains two functional nonallelic β 1,4-galactosyl transferase genes," (1997) J. Biol. Chem. 272:31389-31399	
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		Examiner Name Unknown	
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	C198	Taylor, P.C. et al., "Immunotherapy for rheumatoid arthritis," (2001) Curr. Opin. Immunol. 13:611-616	
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	C200	Thomson, J.A. et al., "Embryonic stem cell lines derived from human blastocysts," (1998) Science 282:1145-1147	
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	C203	Tsuji, S. et al., "Molecular cloning and functional analysis of sialyltransferases," (1996) J. Biochem. 120:1-13	
	C204	Uckert, W. et al., "Retrovirus-mediated gene transfer in cancer therapy," (1994) Pharmacol. Ther. 63:323-347	
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	C206	Ulrich, W. et al., "The differentiation-related gene 1, Drg1, is markedly upregulated by androgens in LNCaP prostatic adenocarcinoma cells," (1999) FEBS Lett 455:23-26	
	C207	Van Heeke, G. et al., "Expression of human synthetase in Escherichia coli," (1989) J. Biol. Chem. 264:5503-5509	
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	C211	Wakarchuk, W. et al., "Functional relationships of the genetic locus encoding the glycosyltransferase enzymes involved in expression of the Lacto-N-neotetraose terminal lipopolysaccharide structure in <i>Neisseria meningitidis</i> ," (1996) J. Biol. Chem. 271:19166-19173	
	C212	Wang et al., "Identification of genes differentially over-expressed in lung squamous cell carcinoma using combination of cDNA subtraction and microarray analysis," (2000) Oncogene 19:1519-1528	
	C213	Weiss, G.A. et al., "Anticalins versus antibodies: made-to-order binding proteins for small molecules," (2000) Chem. Biol. 7:R177-R184	
	C214	Wigler, M. et al., "Transfer of purified herpes virus thymidine kinase gene to cultured mouse cells," (1977) Cell 11:223-232	
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	C216	Winter, G. et al., "Man-made antibodies," (1991) Nature 349:293-299	
	C217	Winter, J. et al., "The expression of heat shock protein and cognate genes during plant development," (1991) Results Probl. Cell Differ. 17:85-105	
	C218	Wise, A. et al., "Target validation of G-protein coupled receptors," (2002) Drug Discovery Today 7:235-246	
	C219	Wistuba, I.I. et al., "Comparison of features of human breast cancer cell lines and their corresponding tumors," (1998) Clin. Cancer Res. 4:2931-2938	
	C220	Wolosker, H. et al., "Molecularly cloned mammalian glucosamine-6-phosphate deaminase localizes to transporting epithelium and lacks oscillin activity," (1998) FASEB J. 12:91-99	
	C221	Xu, H. et al., "Viral transduction of trkA into cultured nodose and spinal motor neurons conveys NGF responsiveness," (1994) Dev. Biol. 163:152-161	
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	C223	Yadav, S.P. et al., "Structure and function in galactosyltransferase," (1991) J. Biol. Chem. 266:698-703	
	C224	Yamamoto, H., "α2,6-sialyltransferase gene transfection into a human glioma cell line (U373 MG) results in decreased invasivity," (1997) J. Neurochem. 68:2566-2576	

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	C225	Yamamoto, H. et al., "β1,6-N-acetylglucosamine-bearing N-glycans in human gliomas: implications for a role in regulating invasivity," (2000) Cancer Res. 2000 60:134-142	
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